

MAIN TITLE

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SUB TITLES

1. 1876 was the year of its birth. Alexander Graham Bell was its "daddy."
2. The 39 years following brought forth hundreds of improvements and enabled New York -----
3. -----to hold daily conversation with San Francisco.
4. Today finds the telephone still spinning its mighty web. A telephone pole is set in $3\frac{1}{2}$ minutes.
5. Splicing underground with aerial cable.
6. Trench digging and laying conduit.
7. Pulling big tell cable containing 1200 pairs of wires through conduit.
8. The splicer removes a lead sheath from the cable and behold --- wires all colors of the rainbow, a pair of wires representing from 1 to 4 phones.
9. Moisture is removed with hot paraffin, then the splice is made. Each splice is covered with insulating sleeve.
10. Protecting the spliced cable with lead sleeve and "wiping" joint.
11. These cables of 1200 pairs lead into a central office where -----
12. ----- each are separated into three 400 pair cables.
13. Horizontal side. Main frame.
14. The vertical side of main frame for distributing cable pairs.
15. Relays which operate the signals.
16. Vertical side of the intermediate distributing frame.
17. Jumper wires connecting to subscribers' numbers and cables going to switchboard.
18. Rear of switchboard, showing subscribers' cables and separation of ~~the~~ ^{their} wires to the subscriber's multiple.
19. Front of switchboard showing subscriber's multiple.
20. The key shelf --- "A" board.
21. Testing subscribers' lines to locate trouble.
22. Testing tell lines.
23. Accurately locating tell line trouble with Wheatstone bridge and galvanometer.
24. Repairing trouble.
25. A telephone must have its talking points, so here are some brand new ones.

(continued on sheet #2)

26. But they must be perfectly fit.
27. Instructing students after they have qualified and passed physical examination.
28. Instructors in foreground, students in background. Instructors playing part of subscribers.
29. Another step in training.
30. It is but a step now to be in the same room with the chief operator, supervisors and operators.
31. Operating room ---- "A" board.
32. Remember, there are times when you imagine the operator asleep but she is very much awake.
33. Outgoing trunks to other "central offices."
34. Call circuit keys or order wire buttons.
35. Electrical registers to count subscribers' calls.
36. "This is Long Distance." Receiving details of calls which are recorded and delivered to line operators to complete to other cities.
37. Toll directory.
38. The calculagraph times all conversation.

(The end)

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